

PREMIUM PORTABLE LCD PROJECTORS

9 SERIES

CP-X985/CP-X980

HITACHI
Inspire the Next



PROGRESSIVE

**Not only bright. Not only light.
Not only beautiful.
A total balance of superior performance
and functions.**

**Progressive
Circuit**

**2,700
ANSI Lumens**

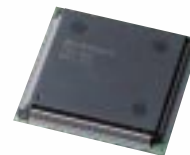
**6.4kg
(14 lbs.)**

**Electrical
Zoom & Focus**

**3 RGB/
3 Video Inputs**

For all types of presentations, Hitachi LCD Projectors offer the total balance you need.

Hitachi's exclusive Progressive Circuit meets the demands for high picture quality in the digital era.



Motion Adaptive Progressive Scan

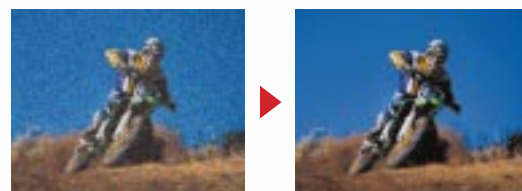
Excellent image quality with every type of source
Most projectors use a line doubler to convert the interlaced image into a progressive image. Hitachi's Motion Adaptive Progressive Scan system is far superior, using Field Interlacing to provide twice as many lines. Line flicker is reduced and the fine scanning lines prevent noticeable distortion even on a large screen, so images are clearer and easier on the eyes. Progressive Scan is the key to the high quality moving images achieved by these projectors.



Interlace Line doubler Progressive scan

Noise Reduction System

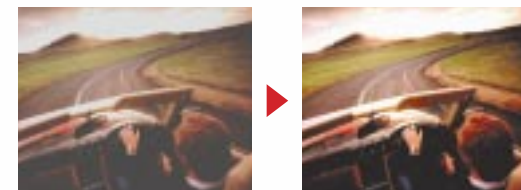
No loss of detail
This system compares past images with present images to remove excessive noise during display. High precision noise reduction is achieved because processing is done inside the progressive circuit. As a result, you'll enjoy clearer images.



Black Level Enhancer

Emphasizes black areas for easier-to-watch images

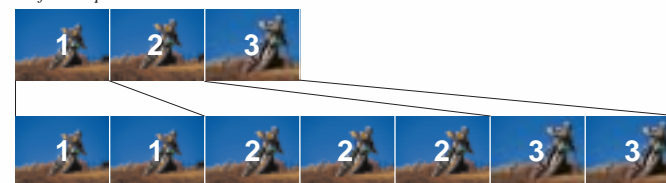
A common problem with projectors is that when they display images with a mixture of bright and dark parts, the black gradation is lost so the black parts appear to float. Hitachi's Black Level Enhancer shifts the level of the black signal, which extends from 0% to about 20% of the image signal, to match it to the blackest level. This blackens the parts that appear gray due to the "floating" black, without altering the bright parts, thus ensuring a clear contrast between light and shade.



3/2 Pull-Down System for Cinema Mode

Reproduces the original feeling of movie film
Movie film has 24 frames per second and video has 60 field per second. The 3/2 Pull-Down System compensates for this difference by repeatedly allotting one frame of the film to two television frames and the next frame of the film to three video frames. Because the conventional video image output method processes the input signals only as normal interlace input signals, it can cause blur and color errors. The Hitachi-developed progressive circuit process all 60 fields as still pictures and it detects 3/2 pull down to accurately reproduce the original images and texture of film.

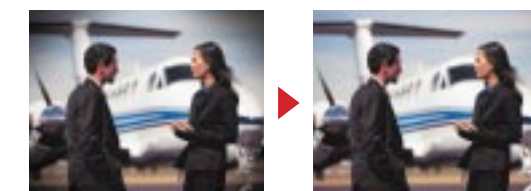
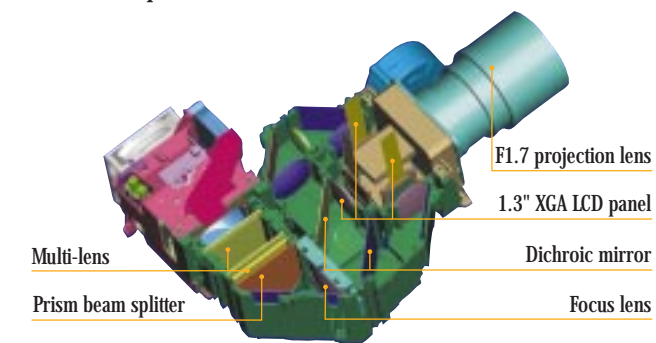
24 frames per second



60 fields per second

The goal was achieving not only high brightness, but also superior image uniformity.

Drawing on our extensive experience in video cameras and projection TVs, Hitachi developed a unique optical system for these projectors. By optimizing the LCD panel and multi-lens illumination system as well as the color system of the mirror and other parts, we achieved our goal of outstanding image uniformity. You see an image that is consistently bright and clear in all parts of the screen.



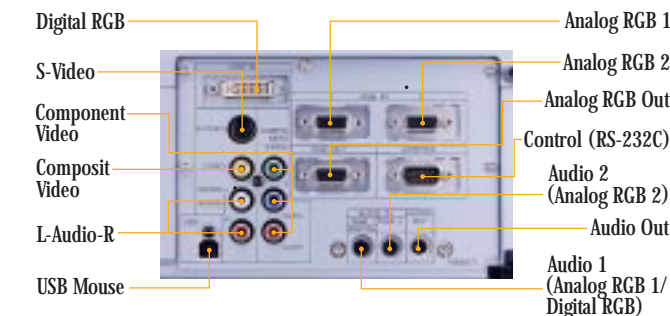
Brightness of 2,700 ANSI lumens and light weight of only 6.4kg (14 lbs.).

Thanks to the use of a 1.3" polysilicon active matrix TFT panel with Micro-Lens and a 250W UHB lamp, the CP-X985 achieves outstanding brightness of 2,700 ANSI lumens.* Since the image is clearly visible even in a bright room, your audience can read documents and take notes while they watch your presentation. Yet even with this high performance, the projector weighs only 6.4kg (14 lbs.), so you can easily carry it from room to room. And the slim 12cm (4.7") body makes it easy to install on ceilings.

* CP-X980: 2,300 ANSI lumens.



3 RGB and 3 video terminals provided for simultaneous input.



Handles the next generation of HDTV signals.

The CP-X985/CP-X980 will handle not only SDTV (Standard Definition TV) signals, but also HDTV (High Definition TV) signals, so you can experience the beautifully realistic quality of these images on a large screen.

* SDTV: 480i, 480p, 570i HDTV: 720p, 1080i

Other user-friendly functions that support smooth presentations.

Highly detailed, vivid display and wide range of compatible resolutions: true XGA and Fine Re-Sizing (VGA, SVGA and SXGA). Electrical Zoom for zooming up to 4x. Digital Keystone Correction corrects trapezoid distortion.

Freeze function stores and displays images as still pictures. Picture-in-picture for more powerful presentations. Both USB and RS-232C terminals.

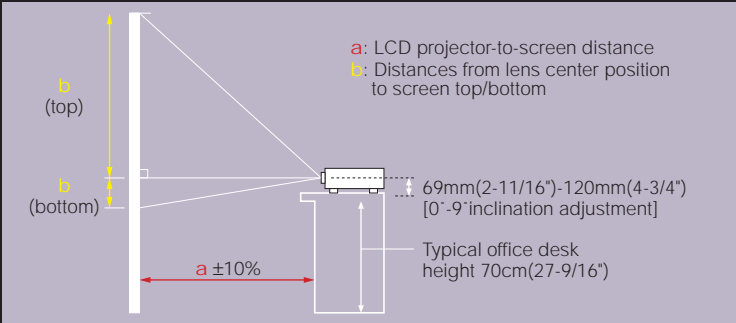
16:9 aspect ratio lets you enjoy high quality reproduction of DVD movies.

30" to 300" screen compatibility. Versatile Remote Control lets you control all operations with one hand. Auto Set-Up function lets you make optimum adjustment with one button.

SPECIFICATIONS

Model Name	CP-X985/CP-X980
Liquid crystal panel structure	1.3" polysilicon active-matrix TFT x 3 (CP-X985 with Micro-lens)
Number of pixels	786,432 pixels (V768 x H1024)
Resolution	1024 x 768 color pixels
Frequency	
fH [kHz]	15~80 (RGB: more than 31.5)
fV [Hz]	50~120 (RGB: more than 56)
Lens	Power zoom (F=1.7-2.3) 1:1.3
	Power focus
Lamp	250W UHB
Brightness	2,700 ANSI Lumens (CP-X985)
	2,300 ANSI Lumens (CP-X980)
Speakers	1.2W + 1.2W (stereo)
Power supply	AC100-120, 220-240V
Power consumption	400W
Operating temperature	0-35°C (32-95°F)
Input/output terminals	
Video input	S-VIDEO: Mini DIN 4-pin terminal x 1
	Composit video: RCA jack terminal x 1
	Component video: RCA jack terminal x 3
	Audio: RCA jack terminal x 2 (L/R)
RGB input	Analog RGB: D-sub 15-pin shrink terminal x 2
	Digital RGB terminal x 1
	Audio: Stereo mini jack x 2
Output	Analog RGB: D-sub 15-pin shrink terminal x 1
	Audio: Stereo mini jack x 1
Control terminal	D-sub 15-pin shrink terminal x 1
Input signals	VGA, SVGA, XGA, SXGA,MAC13", MAC16", NTSC, NTSC4.43, PAL, M-PAL, N-PAL, SECAM, 6.4kg (14 lbs.)
Weight	
Accessories	Remote controller with laser pointer, Video/audio cable, Power cord, Component cable, PS/2 mouse cable, Batteries LR6, RGB cable

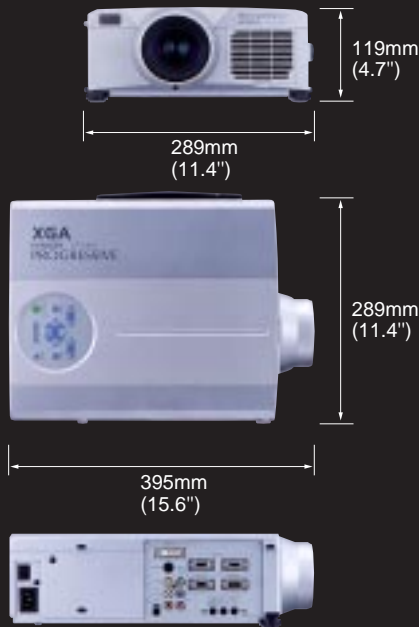
* Design and specifications are subject to change without notice.
* The comparison photos in this catalog are simulations.



Screen Size (inch)	a Min	a Max	b (bottom)	b (top)
30	1.1m (43")	1.4m (55")	2cm (1")	44cm (17")
40	1.4m (55")	1.9m (75")	3cm (1")	58cm (23")
60	2.2m (87")	2.9m (114")	4cm (2")	87cm (34")
70	2.5m (98")	3.4m (134")	5cm (2")	102cm (40")
80	2.9m (114")	3.8m (150")	6cm (2")	116cm (46")
100	3.7m (146")	4.9m (193")	7cm (3")	145cm (57")
120	4.5m (177")	5.9m (232")	9cm (4")	174cm (69")
150	5.6m (220")	7.2m (283")	11cm (4")	218cm (86")
200	7.4m (291")	9.8m (386")	15cm (6")	290cm (114")
300	11.2m (441")	14.9m (587")	22cm (9")	435cm (171")

DIMENSIONS

CP-X985/CP-X980



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